

## **Math 142, Differential Geometry, [Course Schedule](#), Fall 2017**

- Instructor: Prof. Weiqing Gu
- Text: Differential Geometry of Curves and Surfaces by Do Carmo
- Lectures: MW 1:15 PM - 2:30 PM, SHAN 3465
- Office and Phone: SHAN 3420, Ext 18929.
- E-mail: [gu@g.hmc.edu](mailto:gu@g.hmc.edu)
- Grader/Tutor: Paul David: [paul.david@cgu.edu](mailto:paul.david@cgu.edu)
- Webpage Assistant: Cha Suaysom: [nsuaysom@g.hmc.edu](mailto:nsuaysom@g.hmc.edu) (Responsible for the course webpage updates etc.)
- Tutoring Hours and location: TBD

### **Office Hours and Problem Sessions**

- Office Hours:
  - Monday: 4:00 PM – 5:00 PM
  - Wednesday: 5:00 PM - 6:00 PM
  - Or by appointment.

### **Homework**

- Homework will be assigned once a week on Wednesday and will be due the next Wednesday before the lecture. Discussions and collaborations are encouraged. But you must write up your own solutions. Before tackling any problems, read the relevant section of the text and review your lecture notes. Consult with the faculty, the tutor or your classmates about matters that are unclear to you. NEVER LET YOURSELF FALL BEHIND.

### **Midterm Exam**

- Take Home
- October 18, Wednesday

### **Grading Policy**

- 40% - Homework
- 20% - Midterm Exam
- 40% - Final Term Project

## Note

- o I am trying my best to help you succeed in this course. Trust me, I am on your side. However, you must try your best. This is a very challenging course. At beginning, often in a homework problem, you will have hard time to write a proof clearly of something that seems obvious to you geometrically. Of course, finally, you will get used to it if you work hard enough. I am here to help you to build or enhance the skills of going back and forth from geometric observations to mathematical descriptions and equations. I also help you to obtain the techniques to build mathematics models using your geometric intuition for very complicated problems and then apply them to real world problems such as current big data problems. These are the skills you need no matter you choose industrial employment or a graduate school in the future!